

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-118 (Cancelled)

119. (Original) A method for the production of a sulfur-containing phosphor powder, comprising the steps of:

- a) forming an aqueous-based solution comprising soluble precursors of a sulfur-containing phosphor;
- b) generating an aerosol of droplets from said aqueous-based solution;
- c) heating said droplets to form a particulate intermediate compound that is capable of being post-treated to form said sulfur-containing phosphor compound; and
- d) treating said particulate intermediate compound to form said sulfur-containing phosphor powder.

120. (Original) A method as recited in Claim 119, wherein said method further comprises the step of milling said phosphor powder.

121. (Original) A method as recited in Claim 119, wherein said method further comprises the step of annealing said phosphor powder.

122. (Original) A method as recited in Claim 119, wherein said particulate intermediate compound has an average particle size of from about 0.3 to about 3  $\mu\text{m}$ .

123. (Currently Amended) A method as recited in Claim 119, wherein said method ~~further~~ treating step comprises the step of ~~annealing~~ heating said phosphor powder in

contact with sulfur or a sulfur-containing compound.

124. (Currently Amended) A method as recited in Claim 119, wherein said ~~method~~ further treating step comprises the step of ~~annealing~~ heating said phosphor powder in contact with  $H_2S$  gas at a temperature and for a time sufficient to form said sulfur-containing phosphor powder.

125. (Original) A method as recited in Claim 119, wherein said sulfur-containing phosphor is selected from the Group 2 and Group 12 metal sulfides.

126. (Original) A method as recited in Claim 119, wherein said sulfur-containing phosphor is a thiogallate.

127. (Original) A method as recited in Claim 119, wherein said aqueous-based solution further comprises a precursor to an activator ion.

128-239 (Cancelled)

240. (New) A method as recited in Claim 119, wherein said sulfur-containing phosphor is  $CaS$ .

241. (New) A method as recited in Claim 119, wherein said sulfur-containing phosphor is  $ZnS$ .

242. (New) A method as recited in Claim 119, wherein said sulfur-containing phosphor is  $Y_2O_2S$ .

243. (New) A method as recited in Claim 119, wherein said aqueous-based solution further comprises a precursor to an activator ion.